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CENTRAL COTTON RESEARCH INSTITUTE, MULTAN



Pakistan Central Cotton Committee
Ministry of National Food Security & Research
Old Shuja Abad Road, Multan, Pakistan

MONTHLY NEWSLETTER

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3rd National Seminar "Pink Bollworm Management"

The 3rd National Seminar on "Pink Bollworm Management" was organized at CCRI Multan on June 27, 2018. Dr. Khalid Abdullah, Cotton Commissioner, Ministry of National Food Security & Research chaired the seminar. Dr. Zahid Mahmood, Director CCRI Multan; Syed Zafar Yab Haider, Director General Agri Ext. Punjab; Mr. Noor ul Haq Jhandheer, cotton grower Mailsi and Mr. Khalid Khokhar, Chairman Pakistan Kissan Itehad also co-chaired the seminar. Cotton researchers, academicians, extensionists, pesticide and seed industry officials attended the seminar. Private pesticide companies also displayed products at the stalls planted during the event. Cotton growers also participated in the conference and highlighted problems of cotton farmers in their respective areas.



The following presentations were delivered in the seminar.

Title of Presentation	Speaker
Current Scenario of Pink Bollworm in Punjab and its Management Strategies	Dr. Rabia Saeed, Head Entomology, CCRI Multan
Current Practices and Recent Trends in Pink Bollworm Management	Prof. Dr. Shafqat Saeed, Dean Faculty of Agriculture & Environmental Sciences, MNSUA, Multan
Possibilities of biological control based IPM of Pink bollworm	Mr. Riaz Hussain, CABI, Rawalpindi
Critical Crop Period for the Control of Pink Bollworm	Dr. Muhammad Naveed, Officer Incharge, CRS, Mirpur Khas
How to Identify Pink Bollworm, its Biology and Damage in Cotton Field	Mr. Farhan Ahmad, Head Entomology Section, CCRI-Sakrand
Maintenance and Calibration of Spray Machines & Spraying Techniques	Mr. Ghulam Siddique, Director, AMRI, Multan
Nuclear Techniques Application in the Arsenal	Dr. Ihsan ul Haq, Principal Scientific Officer, IPM

<i>for Eradicating Pink Bollworm</i>	<i>Program, NARC/PARC, Islamabad</i>
<i>Association of Pink bollworm Population with Temperature and Relative Humidity</i>	<i>Dr. Muhammad Rafiq Shahid, Assistant Entomologist, Cotton Research Institute, Multan</i>
<i>New & Advance Techniques for Pink Bollworm Management</i>	<i>Irfan Jameel, Arysta Life Sciences, Multan</i>
<i>Management of Pink Bollworm</i>	<i>Habib ur Rehman, Bayer Crop Sciences, Multan</i>

Dr. Khalid Abdullah, Vice President PCCC and Dr. Zahid Mahmood, Director CCRI Multan also visited stalls of various private pesticide companies and organizations. The representatives of companies briefed about their products i.e., PB Ropes, chemicals and printed material for the management of Pink bollworm to the visitors. Dr. Khalid Abdullah appreciated the effective role of private sector in management of Pink bollworm as well as providing services for the guidance of cotton farmers.



Experiment “Modeling the Cotton Genotypes Performance at Temporal Variations”

The Agronomy Section of the Institute initiated experiment “Modeling the Cotton Genotypes Performance at Temporal Variations” to assess the impact of climate change on cotton genotype performance and their adaptability in different ecologies. The climate change is continuous process and risks linked to climate change hold greater importance for sustainable cotton production. The adverse effects of climate change are becoming more common since last decade. It would become very difficult to harvest potential yield with current crop management strategies. The crop growth models are being used throughout the world for supporting crop management decision for better adaptation to climate change. The experiment is being conducted to optimize planting times and genotypes adoptability for regional climate change. The Decision Support System for Agro-Technology Transfer (DSSAT) will be used for the purpose. The outcome of the study will assist to design effective management strategy for cotton growers in future climate change scenario. In future, the approach will also be extended to optimize other agronomic practices for better adaptation to climate change.

Training Workshop “Pink Bollworm Management and Installation of PB Ropes”

i) Agricultural Extension Staff

CCRI Multan organized a training workshop “Use of PB Ropes” for the field staff of Agriculture Extension, Government of the Punjab on June 04, 2018. The extension officials were led by Muhammad Zafar Yab Haider, Director General, Agriculture Extension, Punjab. Twenty (20) Deputy Director of Agriculture

(Extension) from Multan, Khanewal, Vehari, Lodhran, Sahiwal, Pak Pattan, Okara, Bahawalpur, Bahawalnagar, RY Khan, DG Khan, Muzafargarh, Rajanpur, Layyah, Faisalabad, Jhang, Toba Tek Singh, Sargodha, Mianwali, Bhakkar attended the workshop. Dr. Zahid Mahmood, Director CCRI Multan briefed the participants about the role of Pink bollworm in damaging the cotton crop. Dr. Rabia Saeed, Head, Entomology gave detailed presentation about the Pink bollworm, its appearance and application of PB Ropes for its proper management. Demonstration of PB Rope installation was also shown to the participants.



ii) Plant Protection Staff

CCRI Multan organized a training program “Pink Bollworm Management and Installation of PB Ropes” for the officials of Department of Pest Warning & Quality Control of Pesticides (PWQC), Punjab on June 22, 2018. Assistant Directors of Agriculture (Plant Protection) and Agricultural Officers (Plant Protection) of Multan Division attended the program. The officials were led by Ch. Muhammad Ashraf, Deputy Director (Plant Protection), Multan. Eighteen (18) officials from Multan, Lodhran, DUnya Pur, Kacha Pathak, Burewala, Vehari, Mailsi, Khanewal, Kabirwala, Mian Channu, Jalal Pur Pirwala, Shujabad and Jhania attended the program. Dr. Zahid Mahmood, Director CCRI Multan briefed the participants about research activities carried out by the Institute for management of Pink bollworm. Dr. Rabia Saeed, Head, Entomology gave detailed presentation about the Pink bollworm, its appearance and application of PB Ropes for its proper management. Demonstration of PB Rope installation was also carried for the participants. Printed material was also distributed among participants for their guidance. Moreover, lectures were also given about sucking insect pests and their management on cotton crop and mango as well.



Publication of Paper & Poster Presentation

- Dr. Khezir Hayat, Scientific Officer, Cytogenetic got published paper “Genome-wide Association Mapping for Fibre Length in a Global Germplasm Collection of Upland Cotton” in the 1st International Agricultural Science Congress held in Van, Turkey on May 9 -12, 2018 organized by Van Yuzuncu Yil University, Van, Tukey.
- Moreover, a poster titled “A SNP Based Genome-wide Analysis for Lint Percentage in Upland Cotton (*Gossypium hirsutum* L.) Germplasm from Major Cotton Growing Countries” was also presented during the congress

Internship Program

CCRI, Multan provided internship facility to the students from various agriculture universities. A total of 15 students, majoring Plant Breeding & Genetics; Agronomy, Soil Sciences and Entomology completed their internship at the Institute. Practical training was provided to the student in various aspects of cotton plant breeding i.e., variety evolution process, soil and land preparation, seed treatment, planting

and weeding/interculturing, plant leaf and soil analysis and fertilizer requirement and application for cotton crop. The students were also informed about the identification of insects pests of cotton, control measures, rearing techniques and pheromone traps installation.



Radio Program

Radio Program: The scientists of CCRI Multan recorded messages on Radio Pakistan Multan. Dr. Muhammad Naveed Afzal, Head Agronomy recorded talk on “Agronomic practices for better cotton yield” Ms Sabahat Hussain, Head, Plant Pathology Section recorded talk on “Cotton diseases and their management” and Mr. Sajid Mahmood, Technology Transfer Section recorded talk on “Growth seed rate before cotton cultivation”



Cotton Crop 2018-19



The target for cotton area was fixed at 2.955 million hectares with a production of 14.37 million bales at country level. However, by mid June, cotton crop was sown at an area of 2.655 million hectares. Sowing was affected in Sindh province due to shortage of irrigation water, which led to limiting the area to 0.367 million hectares against target of 0.62 million hectares. However, Punjab has achieved sowing target and showing 11.5% increase in area over last year.

Sowing Position as on 16.06.2018 (Million hectares)

Province	Target 2018-19	Area Sown		% Change Over	
		2018-19	2017-18	Target	Last Year
Punjab	2.31	2.288	2.053	99.2%	+11.5
Sindh	0.62	0.367	0.612	59.0%	-40.0
Pakistan	2.95	2.655	2.665	90.0%	-0.38

Source: Provincial Crop Reporting Departments

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